

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits   | Search Query   | DBs                | Default Operator | Plurals | Time Stamp          |
|-------|--------|--|--------------------|------------------|---------|---------------------|
| L1    | 1      | ("20020144903").PN.  | US-PGPUB;<br>USPAT | OR               | OFF     | 2009/07/22<br>13:48 |
| L2    | 1      | 10/058311.app.   | US-PGPUB;<br>USPAT | ADJ              | ON      | 2009/07/22<br>13:49 |
| L4    | 264500 | (composite or mixed)<br>with (film or coating or<br>coat or layer)   | US-PGPUB;<br>USPAT | ADJ              | ON      | 2009/07/22<br>15:38 |
| L5    | 10308  | (sputter or sputtering)<br>with (cathode or target)  | US-PGPUB;<br>USPAT | ADJ              | ON      | 2009/07/22<br>15:38 |
| L6    | 2735   | I4 and I5  | US-PGPUB;<br>USPAT | ADJ              | ON      | 2009/07/22<br>15:38 |
| L7    | 3739   | I5 same (metal or<br>metallic)   | US-PGPUB;<br>USPAT | ADJ              | ON      | 2009/07/22<br>15:38 |
| L8    | 935    | I4 and I7  | US-PGPUB;<br>USPAT | ADJ              | ON      | 2009/07/22<br>15:39 |
| S1    | 50     | ("5019530" "5862939"<br>"6140672" "5782375"<br>"6098829" "4523811"<br>"5722038" "5877977"<br>"5912188" "4519851"<br>"4599261" "5542300"<br>"5830775" "5890501"<br>"5942790" "5986208"<br>"6180976" "4293396"<br>"4414256" "4423401"<br>"4610934" "4617724"<br>"4812333" "4871108"<br>"4921763" "4980123"<br>"5232610" "5348357"<br>"5359204" "5418389"<br>"5449642" "5472678"<br>"5493442" "5595288"<br>"5744817" "5760462"<br>"5763010" "5788757"<br>"5883416" "5919515"<br>"5955213" "6015986"<br>"6027964" "6031653"<br>"6079354" "6091599"<br>"6197634" "4249968"<br>"4289534" "4323719" ).<br>pn. | US-PGPUB;<br>USPAT | OR               | ON      | 2008/03/25<br>11:31 |
| S2    | 2      | ((("5068219") or<br>("5350644")).PN.   | US-PGPUB;<br>USPAT | OR               | OFF     | 2008/03/25<br>11:35 |

|     |        |   |                    |     |    |                     |
|-----|--------|---|--------------------|-----|----|---------------------|
| S3  | 0      | jp-6059063-\$.did.                              | JPO                | ADJ | ON | 2008/03/25<br>11:35 |
| S4  | 0      | jp-1123067-\$.did.                              | JPO                | ADJ | ON | 2008/03/25<br>11:36 |
| S5  | 0      | jp-1192176-\$.did.                              | JPO                | ADJ | ON | 2008/03/25<br>11:36 |
| S6  | 1      | jp-58168006-\$.did.                             | JPO                | ADJ | ON | 2008/03/25<br>11:37 |
| S7  | 1      | jp-62281187-\$.did.                             | JPO                | ADJ | ON | 2008/03/25<br>11:38 |
| S8  | 0      | jp-63043531-\$.did.                             | JPO                | ADJ | ON | 2008/03/25<br>11:39 |
| S9  | 0      | jp-6320043531-\$.did.                           | JPO                | ADJ | ON | 2008/03/25<br>11:39 |
| S10 | 0      | jp-20043531-\$.did.                             | JPO                | ADJ | ON | 2008/03/25<br>11:39 |
| S11 | 0      | jp-63043531-\$.did.                             | JPO                | ADJ | ON | 2008/03/25<br>11:39 |
| S12 | 0      | jp-05504023-\$.did.                             | JPO                | ADJ | ON | 2008/03/25<br>11:40 |
| S13 | 0      | jp-5504023-\$.did.                              | JPO                | ADJ | ON | 2008/03/25<br>11:40 |
| S14 | 0      | jp-1220308-\$.did.                              | JPO                | ADJ | ON | 2008/03/25<br>11:41 |
| S15 | 1      | jp-01220308-\$.did.                             | JPO                | ADJ | ON | 2008/03/25<br>11:41 |
| S16 | 1      | jp-07150356-\$.did.                             | JPO                | ADJ | ON | 2008/03/25<br>11:41 |
| S17 | 1      | jp-10092477-\$.did.                             | JPO                | ADJ | ON | 2008/03/25<br>11:41 |
| S18 | 0      | jp-1092477-\$.did.                              | JPO                | ADJ | ON | 2008/03/25<br>11:42 |
| S19 | 1      | jp-11092176-\$.did.                             | JPO                | ADJ | ON | 2008/03/25<br>11:42 |
| S20 | 96087  | porous with (coat\$3 or<br>film or layer)       | US-PGPUB;<br>USPAT | ADJ | ON | 2008/03/25<br>12:40 |
| S21 | 100181 | (composite with target)<br>or (two with target) | US-PGPUB;<br>USPAT | ADJ | ON | 2008/03/25<br>12:40 |
| S22 | 997633 | oxide or nitride or<br>oxynitride               | US-PGPUB;<br>USPAT | ADJ | ON | 2008/03/25<br>12:40 |
| S23 | 1135   | S20 and S21 and S22                             | US-PGPUB;<br>USPAT | ADJ | ON | 2008/03/25<br>12:41 |
| S24 | 0      | S20 and S21 and S22                             | JPO                | ADJ | ON | 2008/03/25<br>12:41 |
| S25 | 175017 | aqueous with acid with<br>solution              | US-PGPUB;<br>USPAT | ADJ | ON | 2008/03/25<br>12:43 |

|     |         |  |                              |     |    |                     |
|-----|---------|--|------------------------------|-----|----|---------------------|
| S26 | 143     | S23 and S25  | US-PGPUB;<br>USPAT           | ADJ | ON | 2008/03/25<br>12:43 |
| S27 | 2122206 | heat\$3 or bak\$3 or anneal<br>\$3                               | US-PGPUB;<br>USPAT           | ADJ | ON | 2008/03/25<br>12:44 |
| S28 | 130     | S26 and S27  | US-PGPUB;<br>USPAT           | ADJ | ON | 2008/03/25<br>12:44 |
| S29 | 47      | S26 and S27  | USPAT                        | ADJ | ON | 2008/03/25<br>12:44 |
| S30 | 1       | jp-60059063-\$.did.  | JPO                          | ADJ | ON | 2008/03/25<br>12:50 |
| S31 | 0       | jp-0123067-\$.did.   | JPO                          | ADJ | ON | 2008/03/25<br>12:50 |
| S32 | 1       | jp-01123067-\$.did.  | JPO                          | ADJ | ON | 2008/03/25<br>12:51 |
| S33 | 1       | jp-01220308-\$.did.  | JPO                          | ADJ | ON | 2008/03/25<br>12:52 |
| S34 | 83      | S26 and S27  | US-PGPUB                     | ADJ | ON | 2008/03/25<br>14:22 |
| S35 | 15257   | S20 and (titanium or Ti)   | US-PGPUB                     | ADJ | ON | 2008/03/25<br>14:27 |
| S36 | 154     | (porous near1 thin near1<br>film) and (titanium or Ti)           | US-PGPUB                     | ADJ | ON | 2008/03/25<br>14:28 |
| S37 | 154     | (porous near1 thin near1<br>film) and (titanium or Ti)           | USPAT                        | ADJ | ON | 2008/03/25<br>14:28 |
| S38 | 1       | "5256443".pn. and bak\$3   | US-PGPUB;<br>USPAT           | ADJ | ON | 2008/03/25<br>15:52 |
| S39 | 12      | ("4554176"   "4874462").<br>PN. OR ("5256443").<br>URPN.         | US-PGPUB;<br>USPAT;<br>USOCR | ADJ | ON | 2008/03/25<br>15:55 |
| S40 | 5958    | (sputter or sputtering)<br>and (target with<br>(titanium or ti)) | US-PGPUB;<br>USPAT           | ADJ | ON | 2008/12/08<br>15:58 |
| S41 | 624     | S40 and porous   | US-PGPUB;<br>USPAT           | ADJ | ON | 2008/12/08<br>15:58 |
| S42 | 383     | S41 and reactive   | US-PGPUB;<br>USPAT           | ADJ | ON | 2008/12/08<br>15:58 |
| S43 | 221     | S42 and (reactive with<br>(sputter or sputtering))               | US-PGPUB;<br>USPAT           | ADJ | ON | 2008/12/08<br>15:59 |
| S44 | 31      | S43 and (rotat\$5 with<br>substrate)                             | US-PGPUB;<br>USPAT           | ADJ | ON | 2008/12/08<br>16:00 |

|     |      |  |                              |     |     |                     |
|-----|------|--|------------------------------|-----|-----|---------------------|
| S45 | 8    | ("5154810") or<br>("6217720") or<br>("6613393") or<br>("4782477") or<br>("4911809") or<br>("6964731") or<br>("6338777") or<br>("5529631").PN.  | US-PGPUB;<br>USPAT           | OR  | OFF | 2008/12/08<br>16:06 |
| S46 | 18   | ("20020034882"  <br>"20030197457"  <br>"4072864"   "5866204"  <br>"6206065"   "6248422"  <br>"6359383"   "6426590"  <br>"6498426").PN. OR<br>("6770353").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2008/12/08<br>16:27 |
| S47 | 4055 | (sputter or sputtering)<br>and (composite near1<br>film)   | US-PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2008/12/08<br>16:37 |
| S48 | 210  | (sputter or sputtering)<br>and (composite near1<br>film) and "204".clas.   | US-PGPUB;<br>USPAT           | ADJ | ON  | 2008/12/08<br>16:37 |
| S49 | 24   | ("20030096155"  <br>"20030138658"  <br>"20030152797"  <br>"20040076868"  <br>"20060051599"  <br>"20060051661"  <br>"4299865"   "4590095"  <br>"4601795"   "4654228"  <br>"4770701"   "4781734"  <br>"5091222"   "5120707"  <br>"5162295"   "5858523"  <br>"5874175"   "6027796"  <br>"6253441"   "6284314"  <br>"6503560"   "6528123"  <br>"6592980"   "7256146").<br>PN. OR ("7445814").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2008/12/08<br>16:41 |
| S50 | 34   | ("4021277"   "4147573"  <br>"4252626"   "4389299"  <br>"4444635"   "4591417").<br>PN. OR ("4692230").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2008/12/08<br>17:19 |
| S51 | 25   | ("3622410"   "3819990"  <br>"4002542"   "4331526"  <br>"4333808"   "4510190"  <br>"4544443"   "4680742"  <br>"4683044"   "4851096").<br>PN. OR ("4954232").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | ADJ | ON  | 2008/12/08<br>17:38 |
| S52 | 0    | jp-6013068-\$.did.   | JPO                          | ADJ | ON  | 2008/12/08<br>17:58 |

|     |        |   |                    |     |    |                     |
|-----|--------|---|--------------------|-----|----|---------------------|
| S53 | 1      | jp-60013068-\$.did.   | JPO                | ADJ | ON | 2008/12/08<br>17:58 |
| S54 | 50352  | (composite or composition) near2 (layer or film or coat or coating)               | JPO                | OR  | ON | 2008/12/09<br>00:11 |
| S55 | 974    | S54 and porous  | JPO                | OR  | ON | 2008/12/09<br>00:11 |
| S56 | 622    | S54 with porous   | JPO                | OR  | ON | 2008/12/09<br>00:11 |
| S57 | 5      | S56 and (sputter or sputtering or spatter or spattering)                          | JPO                | OR  | ON | 2008/12/09<br>00:15 |
| S58 | 237329 | (composite or composition) near2 (layer or film or coat or coating)               | US-PGPUB;<br>USPAT | OR  | ON | 2008/12/09<br>00:21 |
| S59 | 4437   | S58 with porous   | US-PGPUB;<br>USPAT | OR  | ON | 2008/12/09<br>00:21 |
| S60 | 565    | S59 and (sputter or sputtering)   | US-PGPUB;<br>USPAT | OR  | ON | 2008/12/09<br>00:21 |
| S61 | 21     | S59 same (sputter or sputtering)  | US-PGPUB;<br>USPAT | OR  | ON | 2008/12/09<br>00:21 |
| S62 | 55422  | (porous or pore or porosity) and (alkali or acid or aqueous or solution)          | JPO                | ADJ | ON | 2008/12/09<br>11:54 |
| S63 | 123341 | (composite or composition) with (film or coat or coating or layer)                | JPO                | ADJ | ON | 2008/12/09<br>11:55 |
| S64 | 2451   | S62 and S63   | JPO                | ADJ | ON | 2008/12/09<br>11:55 |
| S65 | 443    | S62 and S63 and metal   | JPO                | ADJ | ON | 2008/12/09<br>11:55 |
| S66 | 406    | S64 and (etch\$3 or remov\$3 or dissolv\$3)                                       | JPO                | ADJ | ON | 2008/12/09<br>11:56 |
| S67 | 1      | S66 and (sputter or sputtering or spatter or spattering)                          | JPO                | ADJ | ON | 2008/12/09<br>11:57 |
| S68 | 31     | S64 and ((etch\$3 or remov\$3 or dissolv\$3) with (metal or metallic or ceramic)) | JPO                | ADJ | ON | 2008/12/09<br>11:58 |
| S69 | 9631   | (porous or pore or porosity) and (alkali or acid)                                 | JPO                | ADJ | ON | 2008/12/09<br>13:24 |
| S70 | 484    | S69 and S63   | JPO                | ADJ | ON | 2008/12/09<br>13:25 |

|     |       |   |     |     |    |                  |
|-----|-------|---|-----|-----|----|------------------|
| S71 | 8     | S70 and ((etch\$3 or remov\$3 or dissolv\$3) with (metal or metallic or ceramic))                               | JPO | ADJ | ON | 2008/12/09 13:25 |
| S72 | 23285 | (porous or pore or porosity) and (alkali or acid or aqueous or solution) and (film or coat or coating or layer) | JPO | ADJ | ON | 2008/12/09 13:28 |
| S73 | 3766  | (porous or pore or porosity) and (alkali or acid) and (film or coat or coating or layer)                        | JPO | ADJ | ON | 2008/12/09 13:28 |
| S74 | 32609 | (porous or pore or porosity) with (film or coat or coating or layer)  | JPO | ADJ | ON | 2008/12/09 13:48 |
| S75 | 2598  | S74 same (alkali or acid)   | JPO | ADJ | ON | 2008/12/09 13:48 |
| S76 | 630   | S75 and (etch\$3 or remov\$3 or dissolv\$3)   | JPO | ADJ | ON | 2008/12/09 13:51 |
| S77 | 201   | S76 and (metal or metallic)   | JPO | ADJ | ON | 2008/12/09 13:58 |
| S78 | 79    | S77 and (composite or composition or alloy or compound)   | JPO | ADJ | ON | 2008/12/09 13:58 |

**7/ 22/ 2009 3:39:17 PM**

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